MAC



M10 - M11

MAC SUBMACHINE GUN



OPERATING MANUAL

No. I

MILITARY ARMAMENT CORP.

MARIETTA GA. 30062 U.S.A.

OPERATION AND MAINTENANCE MANUAL



MILITARY ARMAMENT CORPORATION

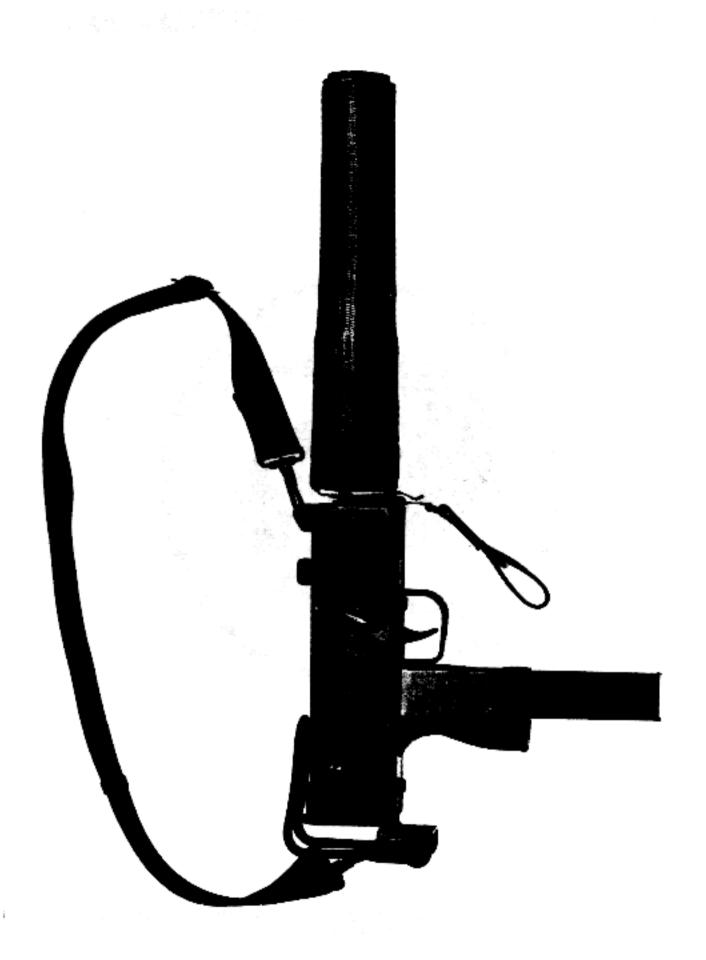


TABLE OF CONTENTS

Foreward

1.	Introduction	
	A. Technical Specifications	
2.	Construction	
3.	Operation of the Weapon	
	A. Loading Magazines	,
	B. Stock Assembly	
	C. Loading and Cocking the Weapon	
	D. Charging the Weapon	
	E. Inserting the Magazine	
	F. Placing the Weapon on "Safe"	
	G. Removal of Magazine	
	H. Fire Selector Lever Operation	
	1. Firing the Submachine Gun	
	J. Malfunctions	
4.	A. Field Stripping 1) Removing Upper Receiver 2) Removing the Bolt 3) Removing the Stock B. Trigger Mechanism C. Extractor D. Recoil Spring E. Receiver Pin Catch F. Magazine Catch G. Safety Catch H. Stock Latch I. Magazine	13
5.	Reassembly	15
6.	Cleaning and Maintenance	15
	Illustrated Parts List	17

1

FOREWORD

This manual is published for the information and guidance of personnel whose duties involve the use, maintenance and repair of the M10 SMG and the M11 SMG. Disassembly, assembly, cleaning and minor repairs may be undertaken in the field.

In all cases where the nature of the repair or adjustment is beyond the scope of facilities of the unit, the Manufacturer should be informed in order that trained personnel with suitable tools and equipment may be provided.

1. INTRODUCTION

The MAC Model 10 and Model 11 represent a significant breakthrough in compact submachine gun design. The M10 is available in 9MM Para and .45 ACP calibers, the M11 in .380 ACP caliber.

Both Models are light in weight, of durable steel construction and are easy to fire, either in semi or full automatic mode.

The compact size of the MAC submachine guns makes them especially suitable for tank crew, gun and mortar crews, etc. and their selective fire capability makes them an excellent weapon for police use.

The addition of a noise suppressor further enhances the performanance, reducing the noise and eliminating muzzle tlash.

The weapon operates on the straight blowback priniciple and is magazine fed.

ξÒ
÷
=
0
-41
C3
=
Ĭ.
O
Œ
2
S
-
_
~
C
=
Z
=
Ħ
بر
щ
\vdash
_

∀		TECHINI	TECHNICAL SPECIFICATIONS	CATIONS		
	Mod 45	Model 10 .45 ACP	Model 10 9MM Para.	el 10 Para.	Mod 386.	Model 11 .380 ACP
GUN DIMENSIONS WITHOUT SUPPRESSOR	Inches	MM	Inches	MM	Inches	MM
Length without stock	10.50	267	10.50	792	8 75	ξ
Length stock telescoped	11.60	295	11.60	295	186	277
Length stock extended	21.57	548	21.57	548	18.11	66
Burrel length	5.75	146	5.75	146	5.06	120
Maximum width	1.96	20	1.96	20	1.36	32
GUN DIMENSIONS WITH SUPPRESSOR ATTACHED	,					3
Length without stock	20.35	517	20.35	217	16.76	\$1.5°
Length stock telescoped	21.45	545	21.45	545	17.31	440
Length stock extended	31.42	798	31.42	708	1930	1
Maximum width	2.13	54	2.13	\$	1.75	S 4
SUPPRESSOR DIMENSIONS	S				4	:
Length Diameter	11.44	291 S4	11.44	291	8.81 1.75	224

	TECHNICAL SPECIFICALIONS	recirical	SNO			
WEIGHT AND CAPACITY	1.08	ķ	Lbs	Kg	The	3
Gun without magazine	6.25	2.81	6.25	2.81	3.50	-
Suppressor	1.20	0.54	1.20	0.54	8	0.45
Loaded to round magazine	::	i	:	:	0.62	0.2
Loaded 30 round magazine	2.15	0.97	:	:	:	
Loaded 32 round magazine	:	;	1.37	0.61	1.12	0.54
TYPE OF FIRE		:		Semi-au	Semi-automatic or full automatic	automati
CYCLIC RATE OF FIRE, M10/45 ACP M10/9MM Para.	M10/95 ACP			Minimur Minimur	Minimum 950 rounds per minute Minimum 950 rounds per minute	per minut per minut
C" IIW	90 ACF			. Minimum	Minimum 1200 rounds per minute	per minute
FRONT SIGHT	:			:	Prot	Protected post
REAR SIGHT, M10				: :	Fixed aperture for 100 meters Fixed aperture for 50 meters	00 meters 50 meters
SAFETIES		Manually oper	Manually operated safeties for locking bolt in open or closed position	locking bolt	in open or clos	ed positic

2. CONSTRUCTION

The weapon consists of the following major components:

Barrel, Receiver, Bolt, Frame, Firing Mechanism, Magazine,
and Extendable Stock

A sling swivel is attached to the barrel and receiver assembly. The front end of the barrel is threaded to accept a suppressor. The receiver is fitted with a fixed front sight and houses the bolt, recoil spring, buffer and ejector rod. The frame carries the receiver group, trigger mechanism, magazine housing, stock guide, and safety assembly.

The trigger mechanisms consist of sear, sear spring, selector lever, retainer, trip, trigger, trigger pin, trigger spring, and disconnector.

The stock is designed to telescope into the frame when not in use thereby reducing the overall size of the weapon.

The bolt assembly on the Model 10 and Model 11 is fitted with a cocking handles. Both models have fixed firing pins. The extractor on the Model 10 operates on the leaf spring principle while the Model 11 utilizes a compression spring.

The magazine for the Model 10 .45 ACP and Model 11 .380 ACP caliber are both of the double column single position feed type, while the Model 10/9MM Para caliber is of the double column two position feed type.

3. OPERATION OF THE WEAPON

A. Loading Magazines
9MM Para — 32 rounds capacity

Hold the magazine in one hand, insert the cartridge, one at a time through the mouth of the magazine ensuring that the base of each cartridge is against the rear of the magazine. (See Fig. 1)

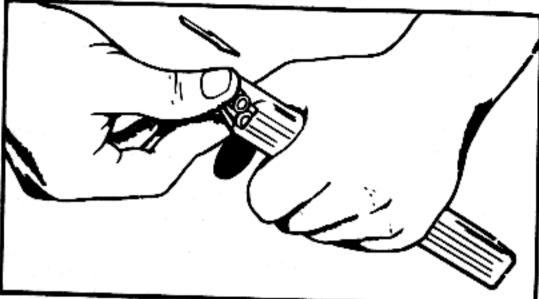


FIG. 1 Pushing Cartridge Under Magazine Feed Lips

LOADING MAGAZINES

.45 ACP - 30 Rds. Capacity .380 ACP - 32 Rds. Capacity

Place the magazine loader on top of the magazine, then place the base of the magazine on a firm surface. Push down on the loader to depress the magazine follower. Insert a cartridge, base first, into the magazine. Lift the loader, and push the cartridge all the way into the magazine. Push down on the loader, depressing the cartridge and magazine follower. Repeat the operation (Fig. 2) until the magazine is full.

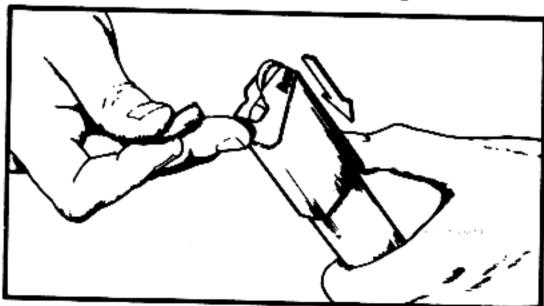


FIG. 2 Pull Down On Londer, Insert Cartridge

B. Stock Assembly

Hold weapon in left hand with right hand press inwards on right side of wire form butt near the pivot to allow wire form stock to rotate clockwise to normal firing position. (See Fig. 3)

Still holding weapon in left hand depress stock latch button and extend stock assembly using right hand. (See Fig. 4)

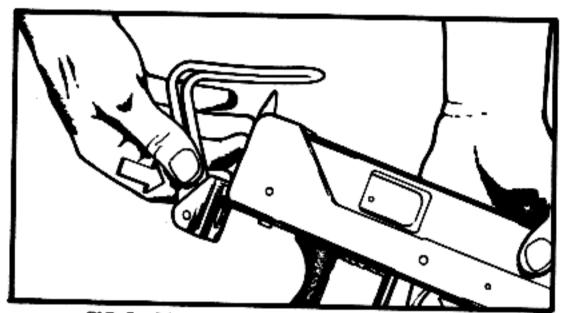


FIG. 3 Disengaging Wire Form from Retaining Pin

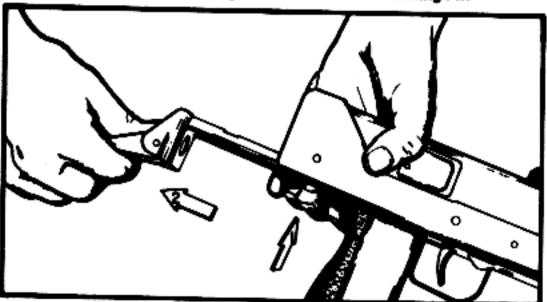


FIG. 4 Extending Stock Assembly

C. Londing and Cocking the Weapon

Move frame safety lever to 'fire' position. Holding the gun by the pistol grip in the right hand and keeping the index finger outside the trigger guard pull back on the cocking handle to the rear with the left hand until the bolt is held to the rear by the sear. (See Fig. 5) Move safety lever to 'safe' position.

Insert loaded magazine in its housing until the magazine catch engages magazine. (See Fig. 6) Select 'semi' or 'auto' fire as required, move frame safety to 'fire' position.

The gun is now ready to fire.

D. Charging the Weapon



FIG. 5

E. Inserting the Magazine

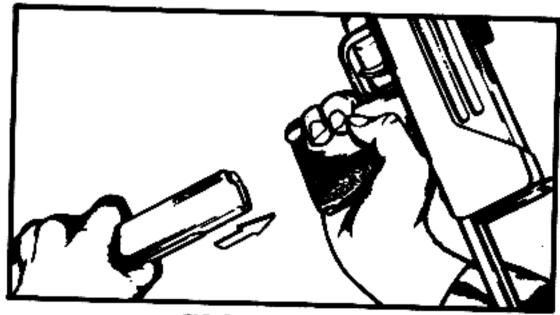


FIG. 6

F. Placing the Weapon on "Safe"

The safety is located on the right of the underside of the frame, it moves front to back, front is the 'fire' position and back is the 'safe' position. (See Fig. 7)

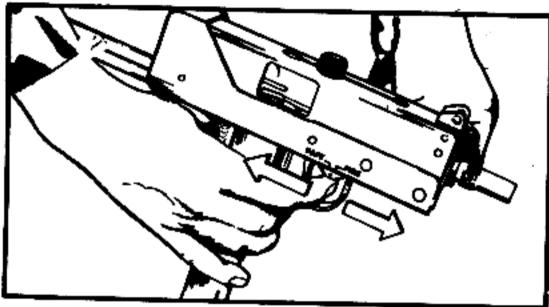


FIG. 7

G. Removal of Magazine

Grasp magazine in left hand and with left thumb press magazine catch to release magazine. (See Fig. 8)



FIG. 8

H. Fire Selector Lever Operation

Located on the left side of the frame the selector is rotated to select 'semi' automatic or 'full' automatic fire. (See Fig. 9)

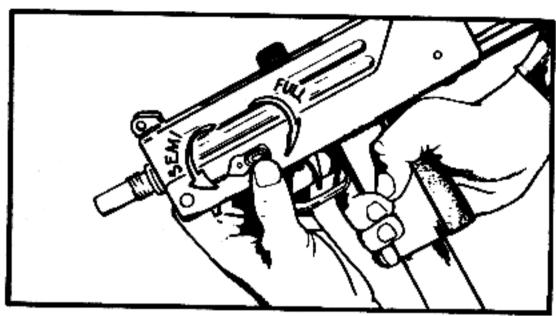


FIG. 9

Firing the Submachine Gun

As the bolt is moved back to the cocked position, the recoil spring is compressed and the sear engages the sear notch of the bolt. When the trigger is pressed, the sear releases the bolt, which is driven forward by the recoil spring. During this forward movement, the bolt strips a cartridge from the magazine into the chamber. The bolt continues forward and fires the cartridge. When the cartridge is fired, the chamber pressure forces the bullet out of the muzzle of the barrel. At the same time, this pressure overcomes the forward movement of the bolt and starts it to the rear. By the time the bolt and empty case have moved to the rear far enough to open the rear of the chamber, the bullet has left the barrel, and the chamber pressure has diminished. (In the submachine gun, the chamber pressure is relatively low and the bolt is relatively heavy; this eliminates the need for positive locking and unlocking.) During the rearward movement of the bolt, the empty cartridge case is extracted and ejected, the recoil spring is compressed and the top round in the magazine moves up against the lips of the magazine. The rearward movement of the bolt is stopped by contact with the buffer plate.

J. Malfunctions

Malfunctions are usually the result of wom parts or improper care of the gun. A knowledge of how the gun functions enables the user to classify and correct the malfunction. Listed, below are the types of malfunctions which might occur.

- Failure to Feed. The top cartridge in the magazine is not positioned up and in front of the bolt. Most malfunctions of the submachine gun are failures to feed caused by a defective or dirty magazine.
- Failure to Chamber. The top cartridge from the magazine is not seated in the chamber.
- Failure to Fire. The cartridge is chambered but does not fire.
- 4. Failure to Extract. If the cartriage fires, the chamber pressure will normally push the empty cartridge case out of the chamber. If the cartridge case is not completely removed from the chamber and the bolt is retracted, then there is a failure to extract. This malfunction seldom occurs.
- Failure to Eject. The empty cartridge case is not ejected from the weapon.
- Failure to Cock. If the bolt is retracted and is not held by the sear, or if, during firing, the bolt does not move to the rear far enough to clear the top cartridge in the magazine, the gun fails to cock.

Common Malfunctions. The three most common malfunctions are:

- Failure to feed usually caused by a defective magazine.
- 2. Failure to fire usually caused by defective amountaion.
- 3. Failure to cock usually caused by low-powered ammunition.

Causes of Malfunctions. The following chart lists common causes of various malfunctions and corrective action.

Mal- function	Cause	Corrective Action
Failure to feed.	Dirty or dented magazine Weak or broken magazine spring Worn magazine notch Corroded ammunition Worn or broken magazine catch	Replace magazine Replace magazine Replace magazine Replace ammunition Replace magazine catch
Failure to chamber	Dirty chamber Obstruction in chamber Weak recoil spring	Clean chamber Remove obstruction Replace recoil spri
Failure to fire	Defective ammunition Defective firing pin Weak recoil spring	Replace ammuniti i Replace boit Replace recoil spring
Failure to extract	Broken extractor	Replace extractor
Failure to eject	Broken ejector Broken or missing extractor	Replace ejector Replace extractor
Failure to cock	Worn sear Worn sear notch Bent guide rods Low powered ammunition	Replace sear Replace bolt Straighten Replace ammunition

Prevention of Malfunctions. Periodic inspection and proper care and cleaning will reduce the possibility of the submachine gun malfunctioning.

4. STRIPPING AND REASSEMBLING

The Model 10 and Model 11 have been designed so that no special tools are necessary in order to strip or reassemble the weapon.

Stripping

Before starting to strip the weapon remove the magazine and check the barrel chamber by looking through the EJECTION PORT to make sure there is no live round in the weapon.

A. Field Stripping consists of

 Removing Upper Receiver (Cock Weapon)
 Push receiver pin catch back and remove receiver pin. (See Fig. 10)
 Lift upper receiver from frame. (See Fig. 11)

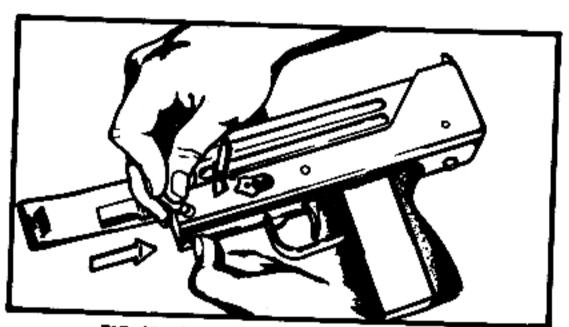


FIG. 10 Removing Pin Securing Receiver Group

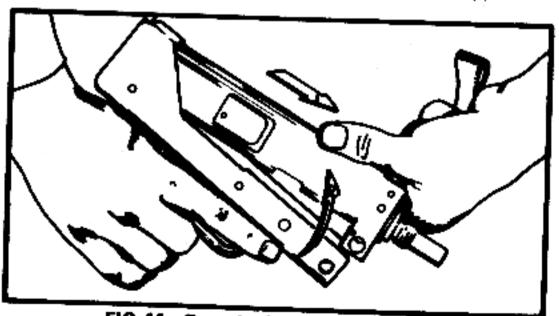


FIG. 17 Removing Barrel and Receiver Group

2) Removing the Bolt

Slide cocking handle to rear of guide slot, rotate handle a few degrees and pull from bolt. (See Fig. 12) The bolt and recoil spring assembly can now be removed from the rear of the receiver. (See Fig. 13)

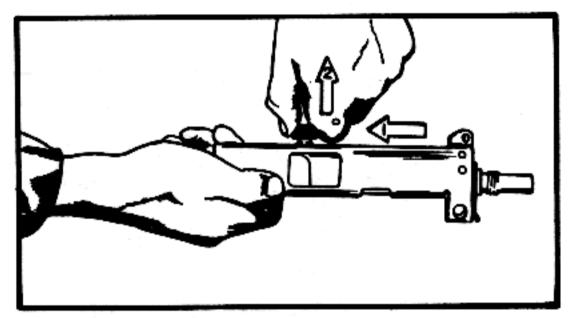


FIG. 12 Removing Cocking Handle

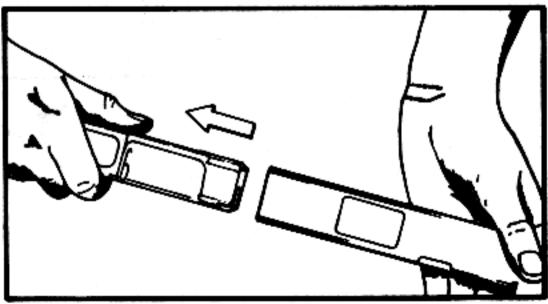


FIG. 13 Bolt Removed from Rear of Receiver

3) Removing the Stock

To remove stock, depress stock latch button and keeping pressure on button pull stock completely out. (See Figs. 3 and 4)

The procedure mentioned above is generally sufficient for normal maintenance and cleaning. If necessary to clean trigger mechanism, removal is as follows:

B. Trigger Mechanism

Lift retainer and remove selector lever, this also allows removal of sear, sear spring and tripping lever. Push trigger pin out of the left side for removal of trigger or torsion spring. Note: for reassembly, free arm of torsion spring is located on rear side of disconnector. Disconnector may be replaced by using a pin punch to remove spring pin.

C. Extractor

Use pin punch to remove extractor spring pin.

D. Recoil Spring

Compress spring and move guide rod clear of bolt and use pin punch to remove spring pin from guide rod.

E. Receiver Pin Catch

Use pin punch to remove spring pin.

F. Magazine Catch

Use flat bladed screw-driver to remove screw in hand grip for access to catch.

G. Safety Catch

Use pin punch to remove catch spring pin.

H. Stock Latch

Press down lightly at center of pin and slide to either side to remove retaining pin. Invert frame and latch will drop out.

Magazine

M10/9MM Para, M11 .380 ACP

Depress stud in floor plate and slide plate from the magazine body, keeping finger over the bottom of the magazine to prevent magazine spring from flying out. Remove the magazine spring and the magazine follower.

M10/45 ACP

Lift the tab in the floor plate by inserting a screw-driver in the hole. Remove base plate, placing the finger over the bottom of the magazine to prevent the magazine spring from flying cut. Remove the magazine spring and the magazine follower.

NOTE: To achieve the proper functioning when remembling the M11 and M10/45 magazine ensure that the slope of the top coll of the spring corresponds with the slope on the follower.

5. REASSEMBLY

Items are reassembled in the reverse order to the stripping procedure.

6. Cleaning and Maintenance

It is essential for reliable operation and performance that the weapon receive careful maintenance. It should be cleaned at the end of each day's firing.

The Gun need only be "field stripped" for this maintenance.

Beard and Receiver Group Cleaning

- A. Use cleaning rod, patch and solvent. Stubborn residue can be removed with a bristle best brush.
- B. Swab bore with patch inturated in solvent.
- C. Use solvent saturated patch and swab inside of receiver to remove residue.
- D. Use clean dry patch to dry barrel and inside of receiver group.
- E. Dempeo patch with light of and swab barrel and secciver.

Bult Assembly Cleaning

- A. Ramove powder residue with solvent and patch.
- B. Wipe all surfaces of boilt to remove curbon. The boilt face should be completely free of carbon and other residue.
- C. Wipe dry and apply a light cout of oil.

Frame Assembly Group Cleaning

- A. Remove residue build-up on exposed surfaces with solvent-
- B. Clean around the lockwork. The weapon is designed to tolerate some dirt in the frame group but excessive dirt will impair operation. Detail cleaning is required after prolonged operation or improper functioning of weapon
- C. Wipe dry and use only putch to cost expense metal areas with light film of oil.

Magazine Cleaning

- A. Inspect magazine for damaged areas. Demeged magazines should be discarded.
- B. Clean lip area and top of the follower.
- C. Wipe with oily patch.

Suppressor Cleaning

The suppressor requires no smaintenance other than ensuring that the bore is kept clear of obstructions and periodic cleaning with bore brush. Inspection must be made with the suppressor semound from the weapon. The front end cap of the suppressor is replaceable. It should be replaced after each 500 rounds of firing or sooner if the noise level has increased significantly.

M10/45 SUBMACHINE GUN ILLUSTRATED PARTS LIST

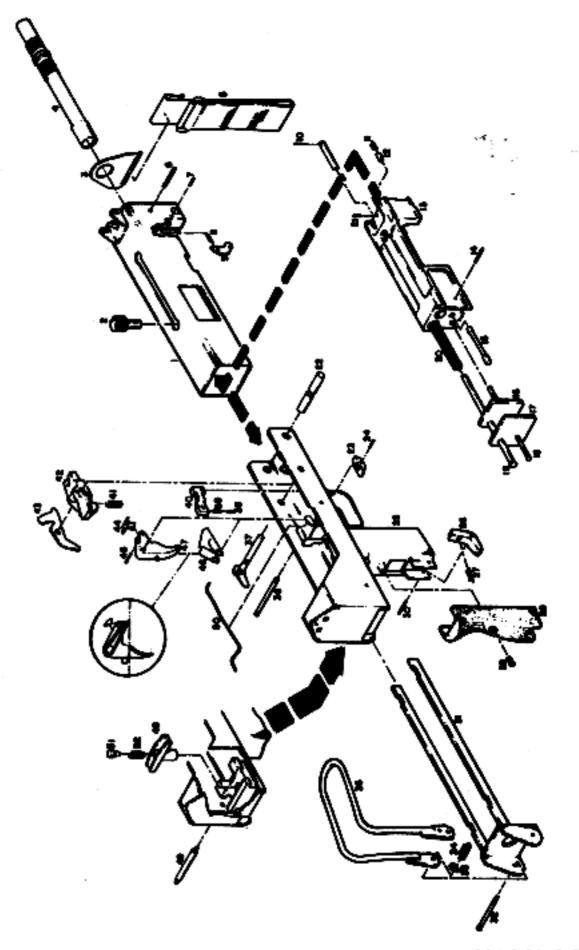
ITEM	TITLE	PART NO.
1.	Receiver	150309
2.	Bolt Handle	150012
3.	Hanger	150395
4.	Barrel	150063
5.	Strap Assembly	150394
6.	Spring Pin, Barrel	150032-4
7.	Spring Pin, Receiver Pin Catch	150032-6
8,	Compression Spring, Receiver Pin Catch	150025-11
9.	Pin Catch	150039
10.	Spring Pin, Recoil Spring Rod	150032-5
11.	Compression Spring, Bolt Handle Detent	150611
12.	Bolt Handle Detent	150037
13.	Bolt	150073
14.	Spring Pin, Extractor	150032-6
15.	Extractor	150021
16.	Buffer	150047
17.	Plate	150024
18.	Ejector	150023
19.	Guide Rod	150022
20.	Compression Spring, Recoil	150616
21.	Spring Pin, Bolt Handle Detent	150032-2
22.	Receiver Pin	150038
-23.	Button	150169
24.	Spring Pin, Safety	150032-9
25.	Frame Assembly	150081
26.	Magazine Catch	150465
27.	Compression Spring, Magazine Catch	150598
28.	Grip	150068
29.	Grip Screw	150043
30.	Magazine Catch Pin	150041
31.	Stock Rail	150088
32.	Stock Hinge Pin	150462
33.	Retaining Ring	150460

M10/45MM (cont'd)

ITEM	TITLE	PART NO.
34.	Compression Spring, Stock Hinge	150612
35.	Wire Form Butt	150155
36.	Trigger Pin	150016
37.	Sear Pin	150252
38.	Safety Detent Plunger	150293
39.	Compression Spring, Safety Detent	150597
40.	Safety Slide	150168
41.	Compression Spring, Sear	150594
42.	Sear	150070
43.	Trdp	150268
44.	Disconnector	150249
45.	Spring Pin, Disconnector	150032-5
46.	Torsion Spring, Trigger	150539
47.	Trigger	150448
48.	Latch	150091
49.	Stock, Latch Pin	150094
50.	Retainer	150269
51.	Plunger, Stock Latch	
52.	Compression Spring, Stock Latch	150110-1
		150598

ACCESSORIES: (Not Included)

Magazine	150111
Magazine Pouch	150072
Magazine Loader	150245
Cleaning Rod	150209
Sling	150459
Suppressor	150216

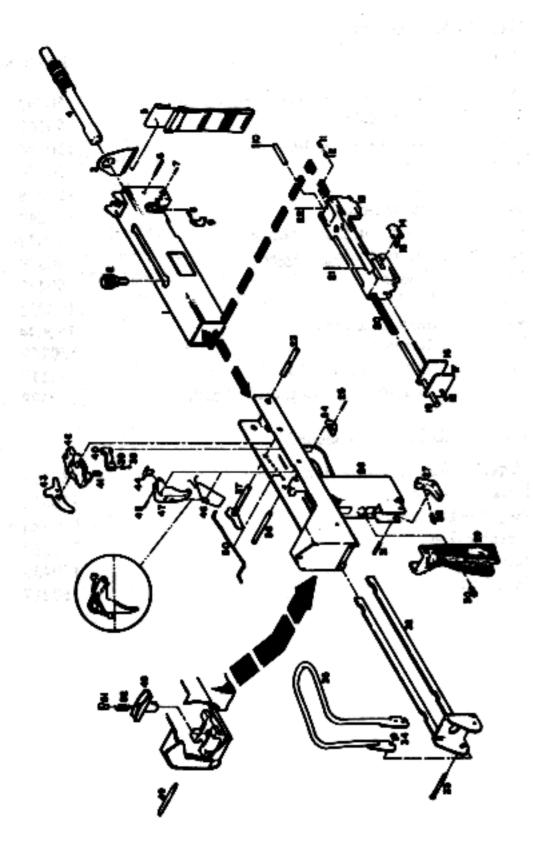


MAC M10-9mm

M10/9MM SUBMACHINE GUN ILLUSTRATED PARTS LIST

ITEM	TITLE	PART NO.
1.	Receiver	150309
2.	Bolt Handle	150012
3.	Hanger	150395
4.	Barrel	150005
5.	Strap Assembly	150394
6.	Spring Pin, Barrel	150032-4
7.	Spring Pin, Receiver Pin Catch	150032-6
8.	Compression Spring, Receiver Pin Catch	150025-11
9.	Pin Catch	150039
10.	Spring Pin, Recoil Spring Rod	150032-5
11.	Compression Spring, Bolt Handle Detent	150611
12.	Bolt Handle Detent	150037
13.	Bolt	150004
14.	Spring Pin, Extractor	150032-6
15.	Extractor	150294
16.	Buffer	150047
17.	Plate	150024
18.	Ejector	150023
19.	Guide Rod	150022
20.	Compression Spring, Recoil	150580
21.	Spring Pin, Bolt Handle Detent	150032-5
22.	Receiver Pin	150038
23.	Button	150169
24.	Spring Pin, Safety	150032-9
25.	Frame Assembly	150010
26.	Magazine Catch	150077
27.	Compression Spring, Magazine Catch	150598
28.	Grip	150068
29.	Grip Screw	150043
30.	Magazine Catch Pin	150041
31.	Stock Rail	150088
32.	Stock Hinge Pin	150462
33.	Retaining Ring	150460
34. 25	Compression Spring, Stock Hinge	150612
35. 36.	Wire Form Butt	150155
36. 37.	Trigger Pin	150016
	Sear Pin	150252
38.	Safety Detent Plunger	150293

M10/9	MM (Cont'd)	
ITEM	TITLE	PART NO.
39.	Compression Spring, Safety Detent	150597
40.	Safety Slide	150168
41.	Compression Spring. Sear	150594
42.	Sear	150070
43.	Trip	150268
44.	Disconnector	150249
45.	Spring Pin, Disconnector	150032-5
46.	Torsion Spring, Trigger	150532-5
47.	Trigger	150448
48.	Latch	150091
49.	Stock Latch Pin	150094
50.	Retainer	150269
51.	Plunger, Stock Latch	150110-1
52 .	Compression Spring, Stock Latch	150598
ACCESS	ORIES: (Not Included)	
	e, Walther Conversion	150115
Magazin		150072
Magazin		No Reg'd.
Cleaning	Rod	150209
Sling		150459
Suppress	or .	150217



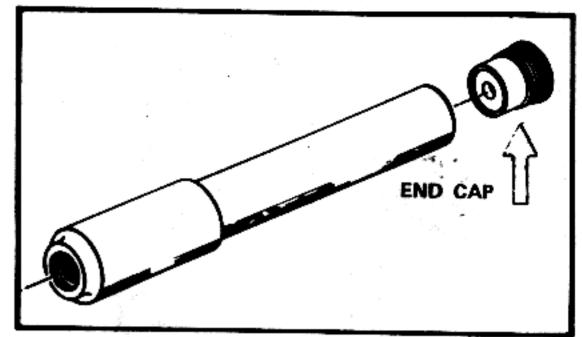
MAC M11-380 ACP

M11 .380 SUBMACHINE GUN ILLUSTRATED PARTS LIST

ITEM	TITLE	PART NO.
1.	Receiver	150308
2.	Bolt Handle	150121
3.	Hanger	150396
4.	Barrel	150172
5.	Strap Assembly	150393
6.	Spring Pin, Barrel	150032-7
7.	Spring Pin, Receiver Pin Catch	150032-7
8.	Compression Spring, Receiver Pin Catch	150025-8
9.	Pin Catch	150133
10.	Spring Pin, Recoil Spring Rod	150032-3
11.	Compression Spring, Bolt Handle Detent	150618
12.	Bolt Handle Detent	150146
13.	Bolt	
14.	Extractor	150120
15.	Compression Spring, Extractor	150129
16.	Buffer	150614
17.	Plate	150055 .
18.	Ejector	150148
19.	Guide Rod	150176
20.		150175
21.	Compression Spring, Recoil	150617
22.	Spring Pin, Extractor	150032-6
23.	Spring Pin, Bolt Handle Detent Receiver Pin	150032-1
24.	Button	150177
25.		150169
26.	Spring Pin Safety	150032-9
20. 27.	Frame Assembly	150173-1
41,	Magazine Catch	150077

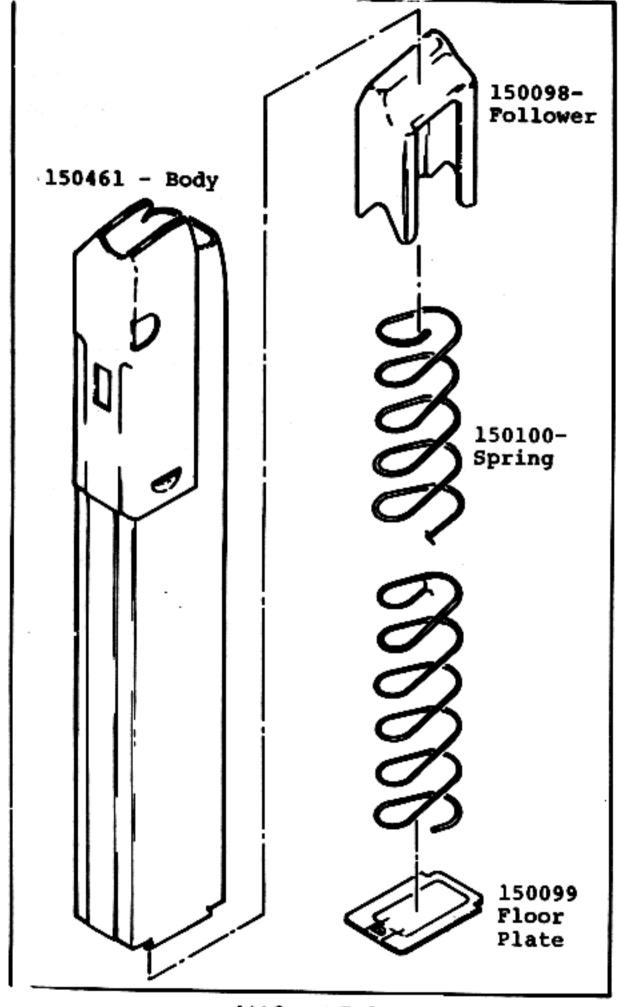
M11 .380 (Cont'd.)

ITEM	TITLE	PART NO.
28.	Compression Spring — Magazine Catch	150598
29.	Grip	150139
30.	Grip Screw	150043
31.	Magazine Catch Pin	150041
32.	Stock Rail	150162
33.	Stock Hinge Pin	150463
34.	Retaining Ring	150460
35.	Wire Form Butt	150534
36.	Trigger Pin	150179
37.	Sear Pin	150248
38.	Safety Detent Plunger	150293
39.	Compression Spring, Safety Detent	150597
40.	Safety Slide	150189
41.	Compression Spring, Sear	150599
42.	Sear	150134
43.	Trip	150264
44.	Disconnector	150249
45.	Spring Pin, Disconnector	150032-5
46.	Torsion Spring, Trigger	150615
47.	Trigger	150135
48.	Latch	150145
49.	Stock Latch Pin	150180
50.	Retainer	150270
51.	Plunger, Stock Latch	150110-2
52.	Compression Spring, Stock Latch	150598
ACCESS	ORIES: (Not Included)	
Magazine		150113-1
		(32 rd.)
Magazine		150113-2
		(16 rd.) opt.
Magazine		150072
Magazine		150197
Cleaning	Rod	150209
Sting		Not Req'd.
Suppress	Or	150218

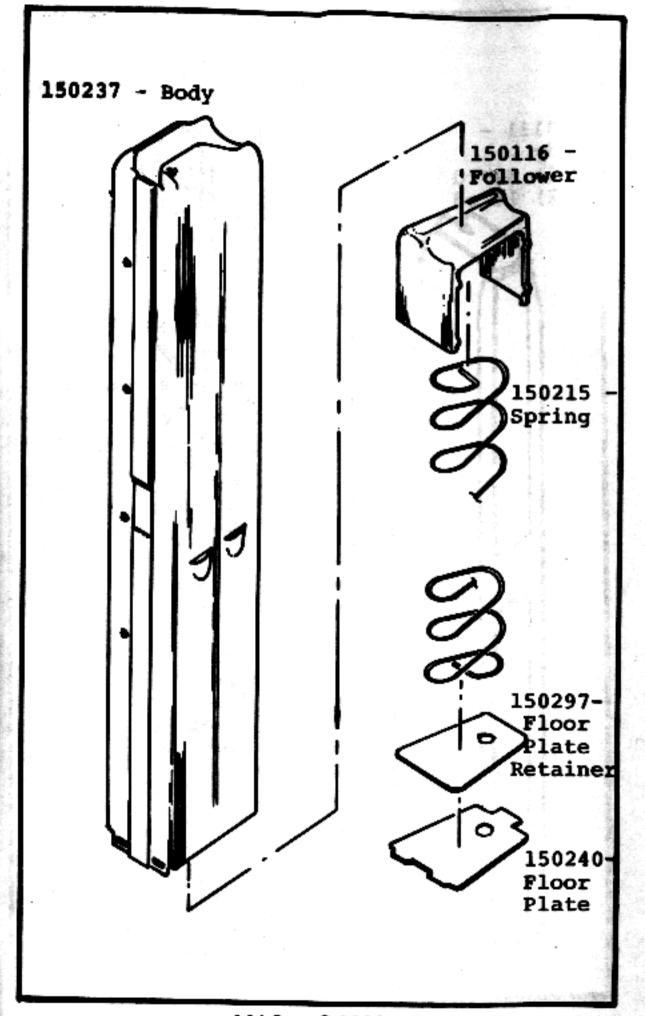


SUPPRESSOR SHOWING REPLACEABLE END CAP

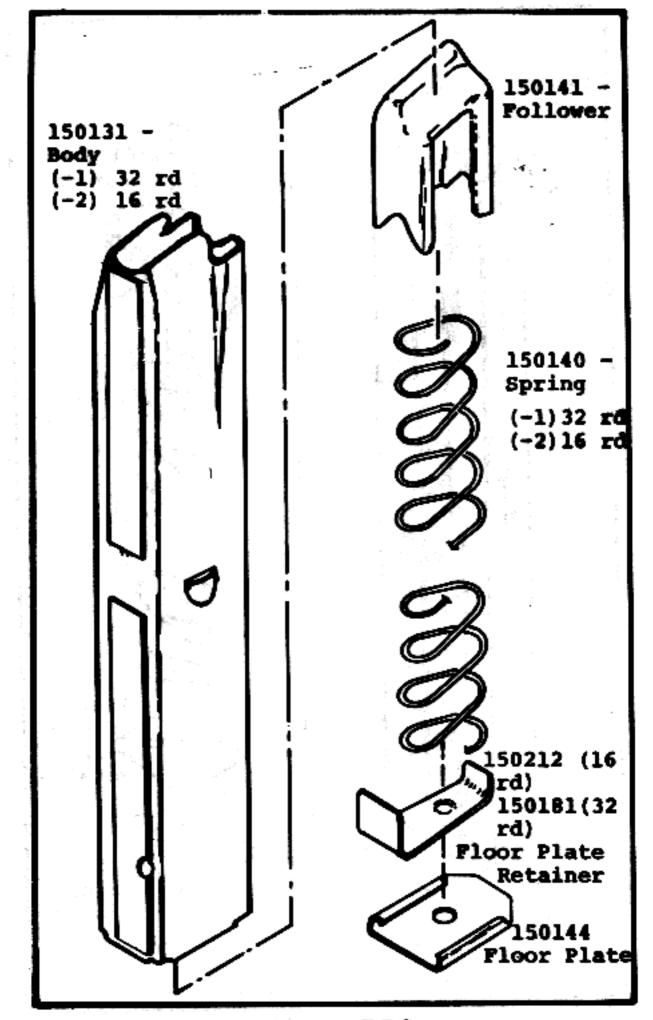
Suppressor M-10/9MM	150217
End Cap	150225-1
Suppressor M-10/45 ACP	150216
End Cap	150225-2
Suppressor M-11/.380 ACP	150218
End Cap	150225-1



MIO - 45 ACP



MIO - 9 MM



MII - .380